

In the claims:

Please amend claim 1 as follows:

β^3 1. (Amended) An isolated DNA fragment comprising a sequence of nucleotides that encodes a calcium channel, wherein the sequence of nucleotides is selected from sequences of nucleotides encoding a protein including the sequence of amino acids set forth in SEQ ID NO. 20, and sequences of nucleotides that hybridize under non-stringent conditions to DNA encoding a protein including the sequence set forth in SED ID NO. 20.

Please amend claim 11 as follows:

β^4 11. (Amended) A process for producing the eukaryotic cell that is transiently or stably transformed and expresses a calcium channel, comprising the step of introducing RNA or DNA having a sequence selected from among sequences that encode a protein including the sequence of amino acids set forth in SEQ ID NO. 20, and sequences of nucleotides that hybridize under non-stringent conditions to DNA encoding a protein including the sequence set forth in SED ID NO. 20 and RNA or DNA encoding an $\alpha 2\delta$ or β calcium channel subunit into a cell.

Please amend claim 14 as follows:

14. (Amended) An isolated DNA fragment having the sequence given by the SEQ ID NO. 20.

β^5 [Please amend claim 15 as follows:]

15. (Amended) A method for mapping the distribution of calcium channel subunits within a tissue sample comprising the steps of exposing the tissue to a reagent comprising a directly or indirectly detectable label coupled to a DNA fragment comprising a sequence selected from among those sequences given by SEQ ID Nos. 13-18, 20, 22, and detecting reagent that has bound to the tissue.